

DETACHABLE AND RETRIEVABLE STENT ASSEMBLY

5 **ABSTRACT OF THE DISCLOSURE**

 A stent assembly comprises an expandable stent having a first stent backbone which extends from the proximal end of the stent to the distal end of the stent. The stent comprises a first stent back bone oriented in a direction which is substantially parallel to a longitudinal axis of the stent, and a plurality of interconnected first stent members and second stent members. Each of the first stent members is oriented in a substantially longitudinal direction in the unexpanded state and the expanded state. Each of the second stent members is oriented in a substantially longitudinal direction in the unexpanded state and oriented in a substantially circumferential direction in the expanded state. The first stent backbone has a greater column strength than that of the plurality of interconnected stent members.

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